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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,738	12/06/2004	Hitoshi Iochi	L9289.04189	6980
=	90 01/04/2007 IS MILLER & MOSH		EXAM	INER
1615 L STREET,			NGUYEN, TUAN HOANG	
SUITE 850 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MON7	THS	01/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/516,738	IOCHI, HITOSHI			
Office Action Summary	Examiner	Art Unit			
	Tuan H. Nguyen	2618			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	·				
1) Responsive to communication(s) filed on 06 D	ecember 2004				
	action is non-final.				
·=	, 				
closed in accordance with the practice under E	•				
Disposition of Claims					
·					
4) Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra	un from consideration	·			
5) Claim(s) is/are allowed.	wit itom consideration.	·			
· · · · · · · · · · · · · · · · · ·					
6) Claim(s) <u>1-8</u> is/are rejected.					
7) Claim(s) is/are objected to.	er alaction requirement				
8) Claim(s) are subject to restriction and/o	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correc	tion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached Offic	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
 Certified copies of the priority document 	1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the prior	rity documents have been receive	ved in this National Stage			
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receiv	red.			
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summar	y (PTO-413)			
2) Delice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I	Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	Patent Application				
Paper No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 03/03/2005 has been considered by Examiner and made of record in the application file.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al. (US PAT. 7,095,780 hereinafter, "Nakamura") in view of Aizawa et al. (U.S PUB. 2002/0114404 hereinafter, "Aizawa").

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Consider claim 1, Nakamura teaches a base station apparatus comprising: a transmission power controller that controls a transmission power of a packet (table 2 col. 9 line 59 through col. 10 line 21); a receiver that receives a channel condition report value transmitted from a communication terminal apparatus of a transmission destination of the packet, said downlink channel condition value indicating a downlink channel condition (col. 52 line 64 through col. 53 line 29); and a receiving quality estimator that estimates a receiving quality of the packet at the communication terminal apparatus based on the channel condition report value (col. 32 lines 8-15).

Nakamura does not explicitly show that the receiving quality estimator calculates a request packet quality for achieving a target packet quality upon a retransmission based on an estimated receiving quality of the packet; and wherein the transmission power controller sets the transmission power upon retransmission based on a calculated request packet quality.

In the same field of endeavor, Aizawa teaches the receiving quality estimator calculates a request packet quality for achieving a target packet quality upon a retransmission based on an estimated receiving quality of the packet (page 3 [0030]); and wherein the transmission power controller sets the transmission power upon retransmission based on a calculated request packet quality (page 2 [0021] and [0022]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, the receiving quality estimator calculates a request packet quality for achieving a target packet quality upon a retransmission based on an estimated receiving quality of the packet; and wherein the transmission power controller

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sets the transmission power upon retransmission based on a calculated request packet quality, as taught by Aizawa, in order to control transmission power at the time of retransmitting data after transmitting the data.

Consider claim 3, Nakamura further teaches the receiving quality estimator estimates the receiving quality of the packet based on an average value of a plurality of channel condition report values received earlier (col. 67 lines 9-13).

Consider claim 8, Nakamura teaches a transmission power control method comprising: estimating a receiving quality of a packet based on a channel condition report value transmitted from an apparatus of a transmission destination of the packet, said downlink channel condition value indicating a downlink channel condition (col. 52 line 64 through col. 53 line 29).

Nakamura does not explicitly show that calculating a request packet quality for achieving a target packet quality upon retransmission based on an estimated receiving quality of the packet; and setting a transmission power for retransmission of the packet based on the request packet quality.

In the same field of endeavor, Aizawa teaches calculating a request packet quality for achieving a target packet quality upon retransmission based on an estimated receiving quality of the packet (page 3 [0030]); and setting a transmission power for retransmission of the packet based on the request packet quality (page 2 [0021] and [0022]).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, calculating a request packet quality for achieving a target packet quality upon retransmission based on an estimated receiving quality of the packet; and setting a transmission power for retransmission of the packet based on the request packet quality, as taught by Aizawa, in order to control transmission power at the time of retransmitting data after transmitting the data.

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura in view of Aizawa as applied to claim 1 above, and further in view of Kim et al. (U.S PUB. 2002/0093918 hereinafter, "Kim").

Consider claim 2, Nakamura and Aizawa, in combination, fails to discloses an offset calculator that calculates an offset from a difference in transmission power between a packet transmission channel and a shared control channel, wherein the receiving quality estimator takes into account the offset in calculation of the request packet quality.

However, Kim teaches an offset calculator that calculates an offset from a difference in transmission power between a packet transmission channel and a shared control channel, wherein the receiving quality estimator takes into account the offset in calculation of the request packet quality (page 3 [0044] and [0045]).

Therefore, it is obvious to one of ordinary skill in the art at the time the invention was made to incorporate the disclosing of Kim into view of Nakamura and Aizawa, in

order to provide a packet data transmission method of a mobile station in a mobile communication system supporting packet data transmission.

Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over 6. Nakamura in view of Aizawa as applied to claim 1 above, and further in view of Moon et al. (U.S PUB. 2003/0021240 hereinafter, "Moon").

Consider claim 4, Nakamura and Aizawa, in combination, fails to discloses the receiving quality estimator predicts and estimates the receiving quality of the packet from a plurality of channel condition report values received earlier.

However, Moon teaches the receiving quality estimator predicts and estimates the receiving quality of the packet from a plurality of channel condition report values received earlier (page 1 [0007]).

Therefore, it is obvious to one of ordinary skill in the art at the time the invention was made to incorporate the disclosing of Moon into view of Nakamura and Aizawa, in order to provide a data transmission/reception apparatus and method for improving performance of a radio communication system.

Consider claim 5, Moon further teaches a coding priority determiner that, when a method is employed that switches a priority of a systematic bit and a parity bit in a turbo code between times of initial transmission and retransmission, determines which of the systematic bit and the parity bit to be prioritized and transmitted based on the receiving

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quality of the packet estimated by the receiving quality estimator (page 6 [0058]).

Consider claim 6, Moon further teaches the coding priority determiner retransmits the parity bit with priority when the systematic bit is received in a desirable quality (page 4 [0027]).

Consider claim 7, Moon further teaches the coding priority determiner retransmits the systematic bit with priority when the systematic bit is not received at a desirable quality (page 4 [0036]).

Conclusion

7. Any response to this action should be mailed to:

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is (571) 272-8329. The examiner can normally be reached on 8:00Am - 5:00Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Maung Nay A. can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information Consider the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan Nguyen Examiner

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